LEAD IN AIR
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Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Were the lead contents of each batch of filters determined prior to use of those batches?	6.1.1.2.1				
Were the lead contents of filter batches used to correct all lead analyses? (If analyses are below Lower Detection Limit then no correction is necessary.)	6.1.1.2.4				
Hot Extraction Procedure 7.2.1					
Were ¾" by 8" strips cut from exposed filters?	7.2.1.1				
Were filter strips placed in a container and 3 M HNO_3 added so that the acid completely covered the strips?	7.2.1.2				
Were the containers with the strips and acid then boiled gently for 30 minutes?	7.2.1.3				
Were acid extracts next rinsed with DI and decanted into a volumetric container?	7.2.1.5				
Was DI water added to the first container and the strip allowed to soak for a minimum of 30 minutes?	7.2.1.5.3				
Ultrasonic Extraction Procedure 7.2.2					
Were ¾" by 8" strips cut from exposed filters?	7.2.2.1				
Were strips placed in a container and a solution of 2.6 M HNO_3 + 0-9 M HCl added to cover strips? (The HCl solution may have a molarity of between 0 to 9.)	7.2.2.2				
If parafilm was used to cover containers, did no part of the parafilm come into contact with the water in the ultrasonic bath?	7.2.2.2				
Notes/ Comments:					

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Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Were the containers sonicated for 30 minutes?	7.2.2.3				
Were container sides and parafilms next rinsed with DI water and rinsings and extracts transferred to volumetric containers?	7.2.2.4.1 7.2.2.4.2				
Was DI water added to the first containers and the strips allowed to soak for a minimum of 30 minutes?	7.2.2.4.3				
Analysis					
After 30 minutes, was DI water decanted into the volumetric container?	7.2.1.5.4				
Were filters and the first container rinsed twice with DI into the volumetric container?	7.2.1.5.5				
Were solutions in volumetric containers brought to volume with DI?	7.2.1.5.7				
Were solutions in volumetric containers allowed to settle for 1 hour prior to proceeding with analysis?	7.2.1.5.8				
If solution was to be stored for subsequent analysis, was solution transferred to polyethylene container?	7.2.1.5.9				
Was the wavelength of the monochromator set at 283.3 or 217.0 nm?	8.1				
When samples were analyzed on instrument, was care taken to avoid disturbing settled solids?	8.2				
Were samples that exceeded calibration range diluted with acid of the same concentration as the calibration standards and reanalyzed?	8.5				
Were calibration standard checks analyzed every 10^{th} sample to be within ±5% of expected value?	9.3				
Lead Concentration = ((Concentration from Calibration Curve x Volume of Volumetric Container x Number of Strips Needed to Complete One Filter) – Lead Concentration of Blank Filters)/ Volume of Air Sampled	10.2				
Notes/ Comments:					